Migros Cross-Math Solver

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1 Problem

The Cross-Math puzzle is a puzzle with 9 numbers to fill. The rules are simple:

- Mathematical operation ordering does not count, simply calc from left to right and from top to bottom
- Each cell is filled with a number between 1 9
- Each number can only appear once

The puzzle presented is the following:

	_		*		=	3
_		+		*		
	+		*		=	20
+		/		*		
	+		+		=	20
=		=		=		
13		1		20		

2 Mathematical formulation

M is very big and ϵ is a very small number.

Equation 2 to Equation 5 are the basic requirements for the corss-math puzzle. Equation 6 to Equation 11 are the specific equations for this problem.

3 Solution

